

Converting Colors

XYZ(12.1718, 9.8182, 48.8370)

Have a look what the booklet for
XYZ(12.1718, 9.8182, 48.8370)
contains.

XYZ(12.1704, 9.8174, 48.8304)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(12.1704, 9.8174,
48.8304)**

Conversions

Conversions Part 1

Format	Color
Hex	0053BC
RGB	0, 83, 188
RGB Percent	0%, 33%, 74%
CMY	0.9998, 0.6745, 0.2627
CMYK	1.00, 0.56, 0.00, 0.26
HSL	214°, 100%, 37%
HSV	214°, 100%, 74%
XYZ	12.1704, 9.8174, 48.8304
YIQ	70.1530, -83.1730, 15.0590

Conversions

Conversions Part 2

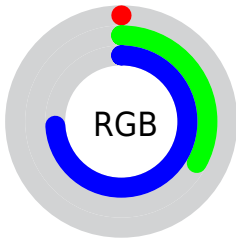
Format	Color
RYB	0, 58, 188
Decimal	21436
CIELab	37.51, 21.36, -60.82
CIELCh	38, 64.465, 289.347
Yxy	9.8174, 0.1719, 0.1386
Android (android.graphics.Color)	4278211516 (0xFF0053BC)
YUV	70.1530, 58.0986, -61.5242
Hunter-Lab	31.3327, 14.5015, -70.4674

Details

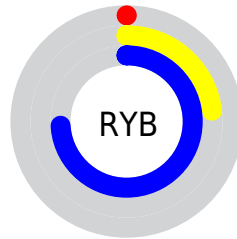
The XYZ color **12.1704, 9.8174, 48.8304** is a dark color, and the websafe version is hex **3366CC**. A complement of this color would be **25.7952, 20.8032, 2.6570**, and the grayscale version is **5.7655, 6.0657, 6.6056**.

A 20% lighter version of the original color is **29.4520, 25.5280, 89.7613**, and **5.0619, 3.2388, 22.9126** is the 20% darker color. If you saturate the color by 10%, you get **12.1686, 9.8138, 48.8301**, and if you desaturate by 10%, it is **13.3012, 11.6849, 49.1315**.

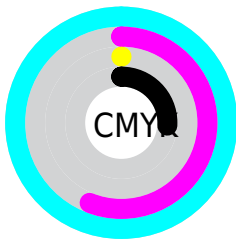
Distribution



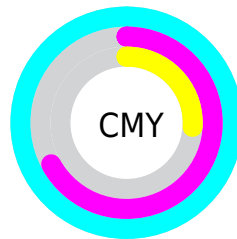
- Red (0%)
- Green (33%)
- Blue (74%)



- Red (0%)
- Yellow (23%)
- Blue (74%)



- Cyan (100%)
- Magenta (56%)
- Yellow (0%)
- Black (26%)



- Cyan (100%)
- Magenta (67%)
- Yellow (26%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.1704, 9.8174, 48.8304 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 12.1704, 9.8174, 48.8304 by changing the saturation by 10% instead.

■ 12.1704, 9.8174,
48.8304

■ 12.1704, 9.8174,
48.8304

199.2771,
189.3638, 398.6775

■ 6.9329, 5.2781,
34.1203

■ 29.4192, 25.4515,
89.8179

■ 3.4661, 2.4113,
22.7079

■ 42.1613, 37.3150,
116.9324

■ 1.4048, 0.8317,
14.1747

■ 58.1355, 52.3887,
149.0187

■ 0.2596, 0.0000,
8.1022

■ 77.7073, 71.0570,
186.4955

■ 0.0000, 0.0000,
4.0717

■ 101.2420, 93.7043,
229.7812

■ 0.0000, 0.0000,
1.6647

■ 129.1049,

■ 0.0000, 0.0000,

120.7149, 279.2944

0.3364

161.6615,
152.4733, 335.4537

■ 0.0000, 0.0000,
0.0000

■ 12.1704, 9.8174,
48.8304

■ 12.1704, 9.8174,
48.8304

■ 12.1686, 9.8138,
48.8301

■ 13.3012, 11.6849,
49.1315

■ 14.8141, 13.9377,
49.4866

■ 16.8075, 16.6337,
49.9019

■ 19.3325, 19.8061,
50.3812

■ 22.4330, 23.4838,
50.9277

■ 26.1479, 27.6932,
51.5443

■ 30.5122, 32.4582,
52.2341

■ 35.5584, 37.8012,
52.9994

■ 41.3165, 43.7432,
53.8428

Harmonies

Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



7.9583, 9.8174, 51.2909



12.1704, 9.8174, 48.8304



16.6142, 9.8174, 32.9394

Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



12.1704, 9.8174, 48.8304



15.4124, 9.8174, 1.1092



3.5608, 9.8174, 7.0594

Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



12.1704, 9.8174, 48.8304



25.7952, 20.8032, 2.6570

Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



4.5652, 9.8174, 1.7286



12.1704, 9.8174, 48.8304



10.8534, 9.8174, 0.0925

Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



12.1704, 9.8174, 48.8304



18.8307, 9.8174, 4.8522



6.9718, 9.8174, 0.2694



3.7248, 9.8174, 19.9632

Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



12.1704, 9.8174, 48.8304



18.7334, 9.8174, 20.7000



6.9718, 9.8174, 0.2694



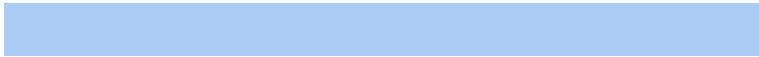
3.7580, 9.8174, 4.5742

Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



12.1709, 9.8176, 48.8307



54.8632, 58.3571, 94.5987



20.4531, 36.9546, 18.9974



11.0547, 11.7441, 20.2268



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



12.1709, 9.8176, 48.8307



21.8184, 17.3153, 88.4184



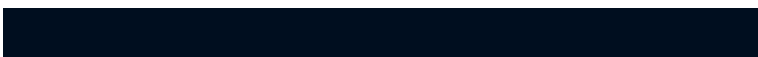
9.1957, 3.6927, 47.8053



9.3537, 9.8997, 12.0901



8.3566, 6.8249, 33.2698



0.3926, 0.3978, 1.3249

Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



22.3009, 11.3168, 9.1926



40.2957, 20.4602, 16.0257



36.4822, 45.5031, 6.8613



9.7004, 9.6045, 10.8112



15.2188, 7.7187, 6.4457



0.6291, 0.3155, 0.4258

Previews

White Background



This preview shows how the XYZ color 12.1704, 9.8174, 48.8304 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



This preview shows how the XYZ color 12.1704, 9.8174, 48.8304 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

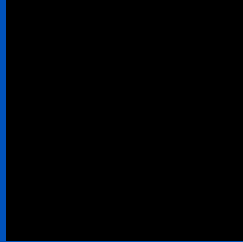
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.1704, 9.8174, 48.8304

Background



This preview shows how black text looks on a background with the XYZ color 12.1704, 9.8174, 48.8304.



This preview shows how white text looks on a background with the XYZ color 12.1704, 9.8174,

Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

Dichromacy



Original Color

12.1704, 9.8174, 48.8304

Protanopia

11.5890, 9.8332, 45.0033

Deuteranopia

9.5726, 9.6789, 32.3740



Tritanopia

6.8664, 9.7348, 14.6138

Trichromacy



Original Color

12.1704, 9.8174, 48.8304

Protanomaly

11.8221, 9.8013, 46.6162

Deuteranomaly

10.3832, 9.6064, 37.8662

Tritanomaly

8.2875, 9.5780, 24.3336

Monochromacy



Original Color

12.1704, 9.8174, 48.8304

Achromatopsia

5.8214, 6.1246, 6.6697

Achromatomaly

6.5789, 6.7823, 16.5852

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.1704, 9.8174, 48.8304 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(0, 83, 188)` looks like.

```
.text, #text, p{  
    color:rgb(0, 83, 188)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(0, 83, 188) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 83, 188) }
```

Border

The CSS property to change the border of an element to XYZ 12.1704, 9.8174, 48.8304 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(0, 83, 188) }
```


If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(0, 83, 188) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(0, 83, 188)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 83, 188); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 83, 188);  
box-shadow:4px 4px 4px 4px rgb(0, 83, 188)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.1704, 9.8174, 48.8304 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 83, 188) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(0, 83,  
188) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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